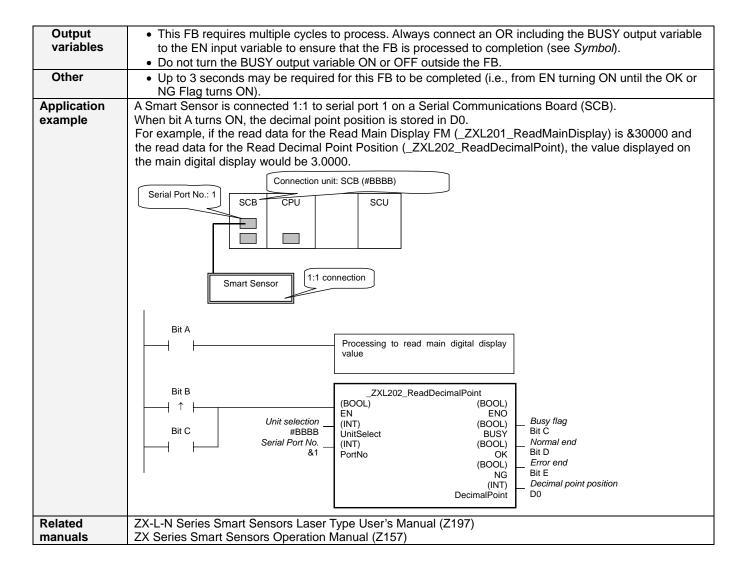
# Read Decimal Point Position: \_ZXL202\_ReadDecimalPoint

Basic function	Reads the decimal point position set for the main digital display of a Smart Sensor.				
Symbol	Busy Flag	ZXL202_ReadDecimalPoint     (BOOL)			
File name		Sensor\ZXL\_ZXL202_ReadDecimalPoint10.cxf			
Applicable models	Laser Sensor	ZX-LDA-N			
	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H CP1L (except 10 points CPU)			
	Serial Communications Units/Boards CX-Programmer	CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher Version 5.0 or higher			
Conditions	External Connections	vorsion 5.0 or nighter			
for usage	<ul> <li>Can be used only for 1:1 connections.         (FB "_ZXLN***" can be used for 1:N connections)</li> <li>Communications must be within one network and cannot cross to another network.</li> <li>Communications Settings</li> </ul>				
	The communications settings of the serial port must be the same as those of the L  • The communications settings of the specified serial port can be set to the defaul using the Set Communications Port (_ZXL600_SetComm) function block, and the settings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY) function Unit Settings  PLC Setup: Shared Settings for Communications Instructions in FBs  • Communications Instruction Response Timeout Time (default: 2 s) 5 s recommunications Instructions (default: 0)  Shared Resources				
	Communications por Related FBs     The FB can be use Read Main Display Read/Write Hystere Data (Intensity OFF)				
Function description	When the Start Trigger turns ON, the decimal position of the main digital display is read for the Smart Sensor connected to the Serial Port specified by the <i>Connection unit</i> and <i>Serial port No</i> . This FB reads only the decimal point position of the main digital display.				
FB precautions	This FB is processed over multiple cycles. The BUSY output variable can be used to check whether FB is being processed.  OK or NG will be turned ON only for one cycle after processing is completed. Use these flags to det the end of the FB processing.  Time Chart  Start Trigger  ON  OFF  Busy Flag  ON  OFF				
		arted, the output parameters are cleared. ameters when the OK flag turns ON.			
EN input condition		between an upwardly differentiated condition for the start trigger and the BUSY			
Restrictions Input variables	Always use an upw	vardly differentiated condition for EN. s are out of range, the ENO Flag will turn OFF and the FB will not be processed.			



■ Connected to Serial Communication Unit(SCU)
Unit selection SCU Unit No. (&0 to &15)
Serial port No. &1: Serial Port 1

&2: Serial Port 2

## ■ Variable Tables Input Variables

Name	Variable name	Data type	Default	Range	Description	
EN	EN	BOOL			1 (ON): FB started.	
					0 (OFF): FB not started.	
Unit selection	UnitSelect	INT	&0	At right.	Specify the Unit and the serial port.	
Serial Port No.	PortNo	INT	&1	&1 to &2	Only serial port 2 of CP1H/CP1L M-type	
					CPU unit is possible to use this FB.	
					■ Connected to CPU Unit	
					Unit selection #FFFF	
					Serial port No. Not access ed. (CP1H/CP1L-M: Serial Port2	
					CP1L-L14/20: Serial Port1)	
					■ Connected to Serial Communication Board(SCB)	
					Unit selection #BBBB	
					Serial port No. &1: Serial Port 1	
					&2: Serial Port 2	

Outnut Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB processed normally.
(May be omitted.)				0 (OFF): FB not processed or ended in an error.
Busy Flag	BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	NG	BOOL		Turns ON for one cycle when processing ends in an error.
Decimal point position	DecimalPoint	INT		Outputs the decimal point position of the value displayed on the main display.  &0: No decimal point displayed
				&1: Leftmost position
				&2: 2nd digit from left
				&3: 3rd digit from left
				&4: 4th digit from left

#### **Internal Variables**

Internal variables are not output from the FB.

If the NG Flag from the FB turns ON, the following internal variables can be monitored to obtain information on the error.

Name	Variable name	Data type	Range	Description
Error code	ErrorCode	WORD		The results information from the Smart Sensor is output to the Error Code. See below.

#### **Error Code Details**

Code	Contents	Meaning
#0000	Normal end	
#2203	Operation error	<ul> <li>The value displayed on the main digital display is read when an error has occurred, e.g., an incident level error.</li> </ul>
#2204	Operation error	The Sensor is not in RUN mode.

**Version History** 

renenal meters				
Version	Date	Contents		
1.00	2004.6.	Original production		

### Note

This manual is a reference that explains the function block functions.

It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.